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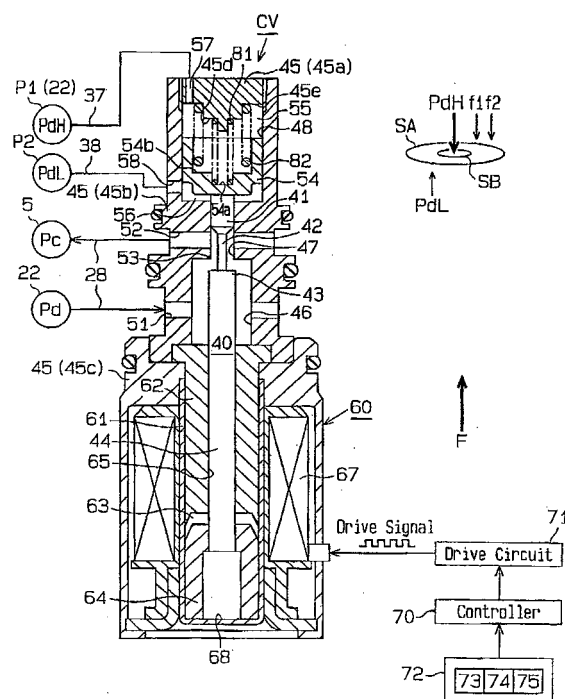
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(54) **Control valve for variable displacement compressor**

(57) A control valve is located in a variable displacement compressor, which is used in a refrigerant circuit. The control valve includes a pressure-sensing member (54). The pressure-sensing member (54) moves a valve body (43) in accordance with the pressure difference between a first pressure monitoring point (P1) and a second pressure monitoring point (P2), which are located in the refrigerant circuit. A first spring (81) and a second spring (82) urge the pressure-sensing member (54) in one direction. The spring constant of the first spring (81) is smaller than that of the second spring (82). A solenoid (60) urges the pressure-sensing member (54) by a force, the magnitude of which corresponds to an external command. The solenoid (60) urges the pressure-sensing member (54) in a direction opposite to the direction in which the springs urge the pressure-sensing member (54). The control valve quickly and accurately controls the displacement of the compressor.

Fig. 3





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EUROPEAN SEARCH REPORT

Application Number
EP 01 12 1158

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			F04B
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
MUNICH		20 February 2004	Richmond, R
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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